

ABSTRACT OF THE DISCLOSURE

[00076] The filtration apparatus of this invention comprises a primary circuit for flowing refrigerant fluid through a primary filter during debris flushing of the refrigerant system of an automotive air-conditioning system. After a failed component is replaced, the apparatus is installed in the high pressure side of the refrigerant system between the condenser and the orifice tube. The system is charged with refrigerant and operated at normal temperature to dissolve and flush any debris in the high pressure side. The primary filter traps any such debris. Following flushing operations, an apparatus diverter valve is operated to shift the flow of refrigerant to a secondary circuit of the apparatus having a secondary filter. Flow through the secondary circuit and secondary filter allows for normal operations of the air-conditioning system, with the primary circuit and primary filter isolated from the flow of refrigerant. This apparatus and method of heated refrigerant flushing avoids the use of flushing solvents while minimizing the use of component parts, labor time and refrigerant.